



ANALYSIS COUNCIL OF THE EXCIMS



ANALYTIC WARGAMING AND MOOTW CONFERENCES

1-2 APRIL 1997



1 APR WARGAMING CONF AGENDA

0830	Analysis Council Welcome	Mr Jim Johnson CAPT Jake Shuford
0845	Conference Goals & Objectives	Dr Henningsen
0850	Intro to Defense Gaming	Lt Col Dean Illinger
0915	JSIMS Requirements	Lt Col Doug Martin
0945	JSIMS Design	CDR John Ash
1015	Break	
1030	JWARS Requirements	Mr Bob Orlov
1100	JWARS Demo (Day 1 Only)	LCDR Jeff Cares
1200	Lunch (On-site)	
1245	Service/Joint Overviews	Services(tentative)
1315	Workshop Taskings	Lt Col Dean Illinger
1330	Workshops - a) Education & Trng b) Analysis & Decision Support	
1600	Reconvene & Wrap Up	
1700	Adjourn	



2 APR MOOTW CONF AGENDA

0800	Registration	All
0830	Welcome - Goals & Objectives	Dr. Henningsen
0845	JSIMS MOOTW Requirements	JWFC
0920	JWARS MOOTW Requirements	Mr. Bob Orlov
1000	JWARS Requirements Analysis	CDR Jeff Care
1000	Break	
1030	Background on MOOTW Reqmts	Mr. Dean Hartley
1100	MORS MOOTW Workshop	Mr. Cy Staniec
1130	Requirements Status Views	CINC/Services
1215	Lunch	
1300	Decision Process Outline	Dr. Henningsen
1330	Workshops	
1600	Reconvene & Wrap Up	Mr. Johnson
1700	Adjourn	

JWARS CONFERENCE DEMO WILL BE
ON 1 APR ONLY. DC ATTENDEES
CAN CONTACT THE JWARS OFFICE
TO ATTEND THE WEEKLY THURSDAY
DEMO.



WARGAMING CONFERENCE

- **GOAL**

- To examine the extent to which JWARS may meet DoD wargaming simulation requirements

- **OBJECTIVES**

- Inform potential JWARS customers on envisioned capabilities, limitations, and design environment
- Identify features JWARS might incorporate to make it more usable for wargaming
- Collect DoD Master Plan Analysis Appendix documentation for those wargaming requirements which may require tools other than JWARS to support Components M&S transition decisions

COPIES OF TODAY'S BRIEFINGS CAN BE DOWNLOADED FROM WWW.DMSO.MIL\
ANNOUNCE\



MOOTW CONFERENCE

- **GOAL**

- To develop a decision process to use in examining MOOTW simulation and tool requirements compared to JWARS planned capabilities and timelines

- **OBJECTIVES**

- Inform potential JWARS customers on envisioned capabilities, limitations, and design environment
- Identify features JWARS might incorporate to make it more usable for MOOTW requirements.
- Collect DoD Master Plan Analysis Appendix documentation for those MOOTW requirements which may require tools other than JWARS to support Components M&S transition decisions



DoD M&S MILESTONES

- **DoD M&S MASTER PLAN**
- **JWARS & JSIMS**
- **ANALYSIS COUNCIL FORMATION**
- **M&S REFORM / CUTS**
- **HIGH LEVEL ARCHITECTURE (HLA)**
- **TRANSITION PLANS**



J-8 DDWSO Perspective on JWARS

WARGAMING

- **Potential Capability, but not a Development Priority**
- **Adoption by Gaming Community is Encouraged**
- **Understanding of Up Front Design Features Sought**

MOOTW

- **A Kinematic Warfare Simulation**
- **First & Foremost, Theater-Level & Joint**
- **Decision Maker > Issues > Methodology > Tools**
- **MOOTW “Systemization” in its Infancy**
- **The Obvious Overlap vs Grey Area vs the “NOT SET”**
- **The Question of HLA Federates**



DoD M&S Reform -- '95 CPA Excerpt

“(U) M&S efforts have proliferated throughout the Department in numerous stovepipes associated with training, analysis, R&D, testing and experimentation, and procurement and logistics. **Our largest shortfall is that simulations built by different organizations are not interoperable** and, consequently, cannot be used to their fullest potential in training our force and analyzing our joint requirements and capabilities.”

1. (U) The JSIMS and [JWARS] are beginning to develop a common framework that leverages interoperability and next generation technology to meet our joint training and analysis requirements, and deserve strong support. **We must identify and cancel stovepiped efforts to improve legacy systems that will compete with these joint programs.”**



DoD M&S Reform -- '96 CPA Excerpt

“(U) We agree with your recent Program Budget Decision tasking the Services, agencies, and OSD to identify all modeling & simulation funding lines with an eye toward reductions in overall M&S funding starting in POM 98. The Joint Chiefs, CINCs, and I continue to believe M&S savings of about \$200 million annually across the FYDP is appropriate. Additionally, the Joint Staff, CINCs, Services, and agencies shall fully align their respective M&S efforts with Joint Simulation System (JSIMS) and Joint Warfare System (JWARS). In effect, we recommend no further funding of M&S legacy systems beyond the IOC of the JSIMS & JWARS. The Joint Chiefs and I recognize the value of joint exercises. I have directed the Joint Staff to lock in those exercises as soon as possible, but also establish a goal to move electrons instead of people as JSIMS comes on line. Increasing the use of simulations will save cost and reduce the PERSTEMPO that has increased with our smaller military, while still maintaining a trained force.”



M&S Directives

JCS CHAIRMAN OF THE
JOINT CHIEFS OF STAFF
INSTRUCTION

JOINT MODELING AND SIMULATION MANAGEMENT

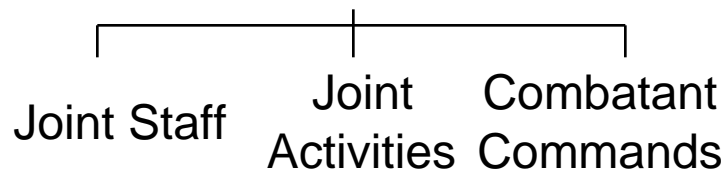
JM&S Management

- Policy
- Responsibilities
- Master Planning Process
- JMSEP

Apr 96

CJCSI 8510.01

“The Joint Components”



DoD Department of Defense
DIRECTIVE

DoD MODELING AND SIMULATION (M&S) MANAGEMENT

**EXCIMS
M&S Master Plan**

- Training
- Analytic
- Acquisition

Jan 94

DoD Directive 5000.59

USAF DEPARTMENT OF THE ARMY
MODELING AND SIMULATION

USMC UNITED STATES MARINE CORPS
MODELING AND SIMULATION

Navy DEPARTMENT OF THE NAVY
MODELING AND SIMULATION

Army DEPARTMENT OF THE ARMY
MODELING AND SIMULATION MANAGEMENT

MODELING & SIMULATION MASTER PLANNING PROCESS



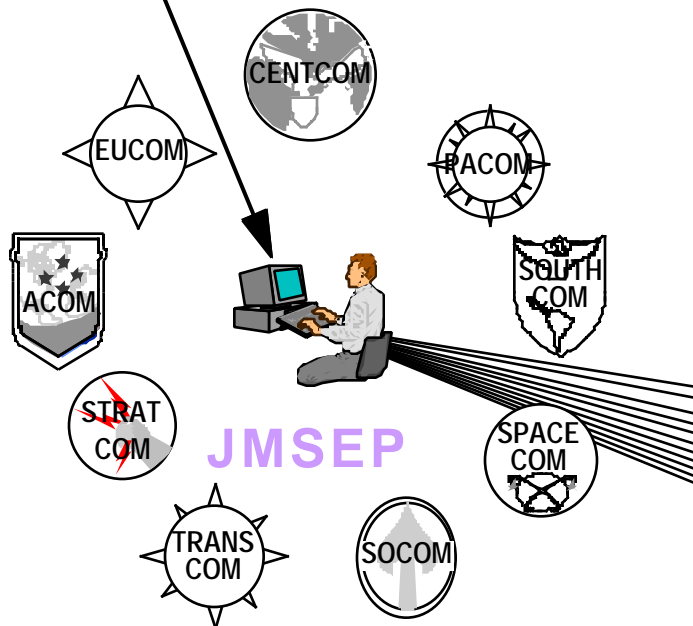
Building the Master Plan

Data Call*

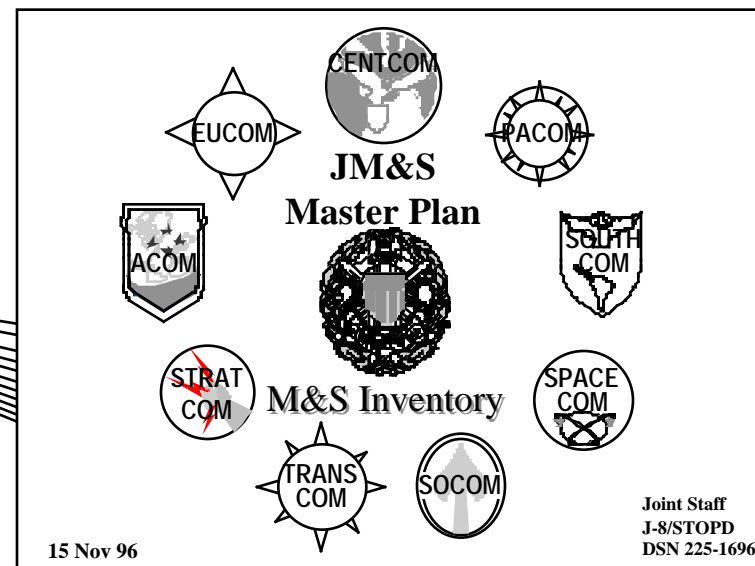
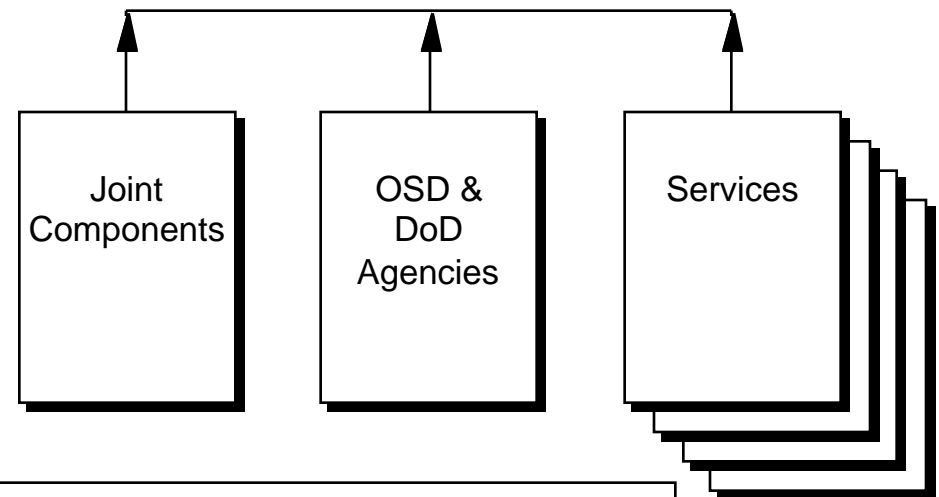
What M&S?
Configuration
Management?
Uses?
POCs?

* Follow-on Steps

- Investment Plans
- Migration to JWARS/
JSIMS
- What models to convert
for HLA Compliance



DoD M&S Master Plan

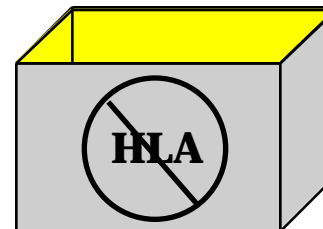
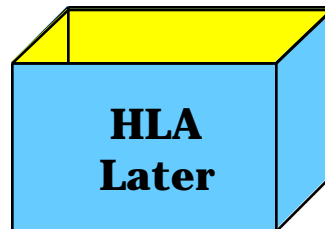
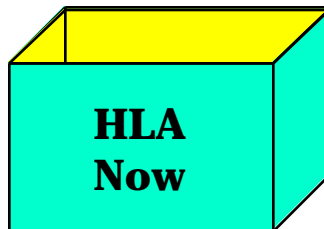


www.msosa.mil.inter.net/jms-plan.htm



High Level Architecture (HLA) Policy

- Jan 96 - JROC Endorses HLA, calls for implementation strategy to include monitoring and no-can-pay/play dates
- Sep 96 - USD(A&T) designated HLA as the technical architecture for all simulations in DOD.
 - Review all simulation projects and programs to establish near-term compliance with HLA. (Susp: 2QFY97)
 - Report HLA-compliance intentions. (Susp: 30 Jun 97)



No Can Pay --- 1 Oct 98

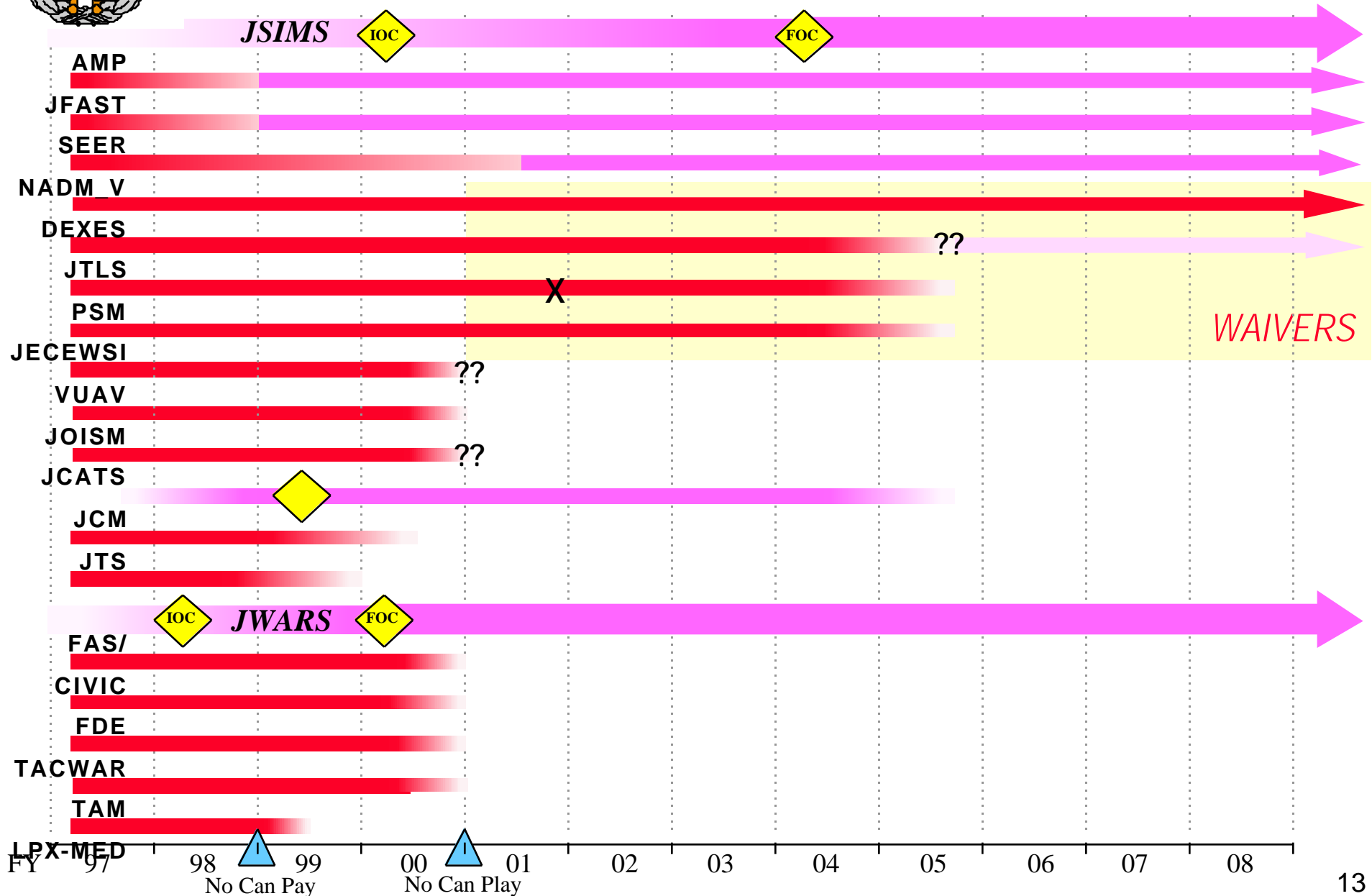
No Can Play --- 1 Oct 00

Waivers per USD(A&T)





Joint Simulations - Transition Proposal





Gaming Categories Strategy Development

1 Gaming Categories	4 Gaming Techniques for each Category	6 Tools for Each with Analytic Goals	7 Types of Simulations Used	What Simulation(s) Do You Use	What JWARS Should Do To Replace the Simulation(s)
Analysis & Decision Sppt Education & Training	Distributed Seminar* Stand Alone Seminar* Man-in-Loop Simulation* *Analytic & Simulation Based	Simulations Decision Aids Correlation Response Surface Optimization	Pol-Mil Economics Force-on-Force	8	9

In GENERAL SESSION

- 1 Identify general categories of Defense Wargaming and their distinctive attributes
- 2 Group input into common categories (Off-Line)
- 3 Organize these categories under the two workshops

Within the WORKSHOPS

- 4 Identify major gaming techniques of each category
- 5 Determine which techniques are used for analytic objectives and use simulations among their tools
- 6 For those techniques in 5 list, all major analytic tools in addition to simulations used
- 7 Identify the types of analytic simulations
- 8 Identify the major force-on Force simulators in use
- 9 What was not apparent in JWARS briefings/demo that would be required for you to replace each force-on-force simulator with JWARS



<div> <div>1</div> <div>GAMING CATEGORY</div> <div>DISTINCTIVE ATTRIBUTES</div> </div>	<div> <div>4</div> <div>GAMING TECHNIQUES FOR THIS CATEGORY</div> </div> <div> <div>5</div> <div>WHICH HAVE ANALYTIC GOALS?</div> </div>	<div> <div>6</div> <div>TOOLS FOR EACH WITH ANALYTIC GOALS</div> <div>SIMULATIONS</div> </div>	<div> <div>7</div> <div>TYPES OF SIMULATIONS USED</div> </div>	<div> <div>8</div> <div>MAJOR WARFARE SIMULATION(S) YOU USE?</div> </div>	<div> <div>9</div> <div>FEATURES JWARS NEEDS TO REPLACE THIS SIM</div> </div>

NAME:

ORG:

TURN IN TO WORKSHOP FACILITATOR 15